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APPLICATION NO.	FILING DATE .	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/740,464	12/22/2003	Jang Jin Yoo	0465-1061P	3624	
2292	7590 12/15/2006	•	EXAM	EXAMINER	
BIRCH STEWART KOLASCH & BIRCH			TON, ANABEL		
PO BOX 747 FALLS CHURCH, VA 22040-0747		•	ART UNIT	PAPER NUMBER	
			2875		
			DATE MAILED: 12/15/2006	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/740,464	YOO ET AL.					
Office Action Summary	Examiner	Art Unit					
·	Anabel M. Ton	2875					
The MAILING DATE of this communication app	<u> </u>						
Period for Reply		•					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI 36(a). In no event, however, may will apply and will expire SIX (6) Me, cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).					
Status		•					
1) Responsive to communication(s) filed on <u>05 O</u>	october 2006.						
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C	.D. 11, 453 O.G. 213.					
Disposition of Claims	•						
4) ☐ Claim(s) 1-38 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 26-28 is/are rejected. 7) ☐ Claim(s) 1-25,29-38 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.						
Application Papers		•					
9) The specification is objected to by the Examine	er.						
10) The drawing(s) filed on is/are: a) acc		o by the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abey	ance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct							
11) The oath or declaration is objected to by the Ex	kaminer. Note the attach	ed Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document * See the attached detailed Office action for a list 	is have been received. Is have been received in rity documents have been (PCT Rule 17.2(a)).	Application No en received in this National Stage					
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper N	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application					

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DETAILED ACTION

Election/Restrictions

 Applicant's arguments have been considered and are persuasive. The restriction requirement of the previous office action has been withdrawn. The claims are rejected as follows.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 26-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nauta et al (6,741,304).
- 3. Nauta discloses a plurality of light sources located below the display device (col. 5 lines 12), a diffusion plate arranged directly above the light sources (col. 5 lines 11-12), and an optical shutter divided (21) into an n number of regions (abstract, col. 4 lines 16-25), the optical shutter being over the diffusion plate (fig 2). Nauta does not disclose the light sources being arranged on a substrate. The examiner takes Official Notice that the use of LEDs is old and well known in the illumination art. It would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute an LED for the light source in the system of Nauta. One would have been motivated since LEDs are recognized in the illumination art to have many desirable

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advantages, including reduced size, high efficiency, low power consumption, long life, resistance to vibrations, and low heat production, over other light sources. LED's are inherently arranged on a substrate or printed circuit board for the purpose of providing power and electrical commands to the light sources. With regards to the recitation "for a field sequential driving", a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim.

Allowable Subject Matter

- 4. Claims 1-25,29-38 are allowed.
- The following is a statement of reasons for the indication of allowable subject 5. matter: The reasons can be found in the office action dated 10/05/05.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anabel M. Ton whose telephone number is (571) 272-2382. The examiner can normally be reached on 08:00-16:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Sahly

AMT

Anabel M Ton Examiner Art Unit 2875